

920305 MC

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MAR 5 3 02 PM '92

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March 5, 1992

ORIGINAL

RECEIVED

MAR 5 - 1992

Donna R. Searcy, Secretary
Federal Communications Commission
1919 M Street, N. W.
Washington, D. C. 20554

Federal Communications Commission
Office of the Secretary

Re: BPH-911230MB

Dear Ms. Searcy:

On behalf of ASF Broadcasting Corporation, applicant for a Construction Permit for a new FM broadcast station on Channel 280A at Westerville, Ohio, there is transmitted herewith in triplicate an amendment to the pending application. This amendment is tendered as a matter of right in that it is filed within 30 days of the Public Notice announcing the acceptance of the application for tender.

Should additional information be necessary in connection with this matter, please communicate with this office.

Very truly yours,



James A. Koerner
Counsel for
ASF BROADCASTING CORPORATION

Enclosures

RECEIVED

MAR 5 1992

EXAMINERS

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Section V-B - FM BROADCAST ENGINEERING DATA

FOR COMMISSION USE ONLY

File No. _____

ASB Referral Date _____

Referred by _____

Name of Applicant

ASF Broadcasting Corp.

Call letters (if issued)

Is this application being filed in response to a window? ☐ Yes ☒ No

If Yes, specify closing date: _____

Purpose of Application: (check appropriate boxes)

☒ Construct a new (main) facility

☐ Construct a new auxiliary facility

☐ Modify existing construction permit for main facility

☐ Modify existing construction permit for auxiliary facility

☐ Modify licensed main facility

☐ Modify licensed auxiliary facility

If purpose is to modify, indicate below the nature of change(s) and specify the file number(s) of the authorizations affected.

☐ Antenna supporting-structure height

☐ Effective radiated power

☐ Antenna height above average terrain

☐ Frequency

☐ Antenna location

☐ Class

☐ Main Studio location

☐ Other (Summarize briefly)

File Number(s) _____

1. Allocation:

Channel No.	Principal community to be served:		
	City	County	State
280	Westerville	Franklin	OH

Class (check only one box below)

☒ A ☐ B1 ☐ B ☐ C3

☐ C2 ☐ C1 ☐ C

2. Exact location of antenna.

(a) Specify address, city, county and state. If no address, specify distance and bearing relative to the nearest town or landmark. 1.5 km SE of Sunbury on St. Rd. 37, Delaware Co., OH. Site is 14 km N-NE of Westerville

(b) Geographical coordinates (to nearest second). If mounted on element of an AM array, specify coordinates of center of array. Otherwise, specify tower location. Specify South Latitude or East Longitude where applicable; otherwise, North Latitude or West Longitude will be presumed.

Latitude	40	14	04	Longitude	82	50	20
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3. Is the supporting structure the same as that of another station(s) or proposed in another pending application(s)? ☒ Yes ☐ No

If Yes, give call letter(s) or file number(s) or both.

former WBBY-FM

If proposal involves a change in height of an existing structure, specify existing height above ground level including antenna, all other appurtenances, and lighting, if any.

DNA

10. Is a directional antenna proposed?

☒ Yes ☐ No

If Yes, attach as an Exhibit a statement with all data specified in 47 C.F.R. Section 73.316, including plot(s) and tabulations of the relative field.

Exhibit No.
E-4

11. Will the proposed facility satisfy the requirements of 47 C.F.R. Sections 73.315(a) and (b)?

☒ Yes ☐ No

If No, attach as an Exhibit a request for waiver and justification therefor, including amounts and percentages of population and area that will not receive 318 mV/m service.

Exhibit No.

12. Will the main studio be within the protected 318 mV/m field strength contour of this proposal?

☒ Yes ☐ No

If No, attach as an Exhibit justification pursuant to 47 C.F.R. Section 73.1125.

Exhibit No.

13. (a) Does the proposed facility satisfy the requirements of 47 C.F.R. Section 73.207?

☐ Yes ☒ No

(b) If the answer to (a) is No, does 47 C.F.R. Section 73.213 apply?

☐ Yes ☒ No

(c) If the answer to (b) is Yes, attach as an Exhibit a justification, including a summary of previous waivers.

Exhibit No.
DNA

(d) If the answer to (a) is No and the answer to (b) is No, attach as an Exhibit a statement describing the short spacing(s) and how it or they arose.

Exhibit No.
Disc.

(e) If authorization pursuant to 47 C.F.R. Section 73.215 is requested, attach as an Exhibit a complete engineering study to establish the lack of prohibited overlap of contours involving affected stations. The engineering study must include the following:

Exhibit No.
E-7

- (1) Protected and interfering contours, in all directions (360°), for the proposed operation.
- (2) Protected and interfering contours, over pertinent areas, of all short-spaced assignments, applications and allotments, including a plot showing each transmitter location, with identifying call letters or file numbers, and indication of whether facility is operating or proposed. For vacant allotments, use the reference coordinates as the transmitter location.
- (3) When necessary to show more detail, an additional allocation study utilizing a map with a larger scale to clearly show prohibited overlap will not occur.
- (4) A scale of kilometers and properly labeled longitude and latitude lines, shown across the entire exhibit(s). Sufficient lines should be shown so that the location of the sites may be verified.
- (5) The official title(s) of the map(s) used in the exhibit(s).

14. Are there: (a) within 60 meters of the proposed antenna, any proposed or authorized FM or TV transmitters, or any nonbroadcast *(except citizens band or amateur)* radio stations; or (b) within the blanketing contour, any established commercial or government receiving stations, cable head-end facilities, or populated areas; or (c) within ten (10) kilometers of the proposed antenna, any proposed or authorized FM or TV transmitters which may produce receiver-induced intermodulation interference?

☒ Yes ☐ No

If Yes, attach as an Exhibit a description of any expected, undesired effects of operations and remedial steps to be pursued if necessary, and a statement accepting full responsibility for the elimination of any objectionable interference (including that caused by receiver-induced or other types of modulation) to facilities in existence or authorized or to radio receivers in use prior to grant of this application. (See 47 C.F.R. Sections 73.315(b), 73.316(a) and 73.318.)

Exhibit No.
A

15. Attach as an Exhibit a 7.5 minute series U.S. Geological Survey topographic quadrangle map that shows clearly, legibly, and accurately, the location of the proposed transmitting antenna. This map must comply with the requirements set forth in Instruction V. The map must further clearly and legibly display the original printed contour lines and data as well as latitude and longitude markings, and must bear a scale of distance in kilometers.

Exhibit No.
E-5

16. Attach as an Exhibit *(name the source)* a map which shows clearly, legibly, and accurately, and with the original printed latitude and longitude markings and a scale of distance in

Exhibit No.
E-1

Radial bearing (degrees True)	Height of radiation center above average elevation of radial from 8 to 16 km (meters)	Predicted Distances	
		To the 316 mV/m contour (kilometers)	To the 1 mV/m contour (kilometers)
212	148.1	19.0	32.4
0	96.0	10.0	17.9
45	68.0	11.4	20.4
90	76.4	13.4	23.9
135	90.7	14.5	25.9
180	116.5	16.8	29.1
225	144.7	18.8	32.0
270	143.1	17.2	29.6
315	136.7	12.1	21.9

*Radial through principal community, if not one of the major radials. This radial should NOT be included in the calculation of HAAT.

20. Environmental Statement/See 47 C.F.R. Section 1.1301 et seq.)

Would a Commission grant of this application come within Section 1.1307 of the FCC Rules, such that it may have a significant environmental impact? ☐ Yes ☒ No


If you answer Yes, submit as an Exhibit an Environmental Assessment required by Section 1.1311.

Exhibit No.

If No, explain briefly why not. This application meets the requirements of OST Bulletin No. 65 and is categorically excluded from environmental processing pursuant to Section 1.1306 of the Commission's Rules, because it does not (1) involve a site location specified under Section 1.1307(a)(1)-(5); (2) involve high intensity lighting under Section 1.1307(a)(6); or, (3) result in human exposure to radio frequency radiation in excess of the applicable standards specified in Section 1.1307(b) of the Commission's Rules.

CERTIFICATION

I certify that I have prepared this Section of this application on behalf of the applicant, and that after such preparation, I have examined the foregoing and found it to be accurate and true to the best of my knowledge and belief.

Name (Typed or Printed)	Relationship to Applicant (e.g., Consulting Engineer)
E. Harold Munn, Jr. & Associates, Inc.	Technical Consultant
Signature 	Address (Include ZIP Code) Box 220 Coldwater, MI. 49036
Date February 17, 1992	Telephone No. (Include Area Code) (517) 278-7339

ENGINEERING REPORT

NEW FM BROADCAST STATION

CHANNEL 280(A)

WESTERVILLE, OHIO

February, 1992

PREPARED BY:

E. HAROLD MUNN, JR. &
ASSOCIATES, INC.

ONE HUNDRED AIRPORT ROAD

COLDWATER, MICHIGAN 49036

(517) 278-7339

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8. Exhibit E-4 - Tabulation of Operating Conditions
9. Exhibit E-5 - Portion of Topographic Map Showing Site
10. Exhibit E-5A - Portion of Aero Chart Showing Site
11. Exhibit E-6 - Tabulation of Population and Area Served
12. Exhibit E-7 - Request for Processing Under Section 73.215

E. HAROLD MUNN, JR.
& ASSOCIATES, INC.
Broadcast Engineering Consultants
Coldwater, Michigan

CERTIFICATION OF CONSULTANT

The firm of E. Harold Munn, Jr. & Associates, Inc., Broadcast Engineering Consultants, with offices at 100 Airport Drive, Coldwater, Michigan, has been retained for the purpose of preparing the technical data forming this report.

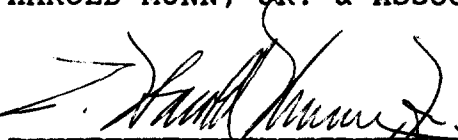
The report has been prepared by properly trained electronics specialists under the direction of the undersigned whose qualifications are a matter of record before the Federal Communications Commission.

I declare under penalty of perjury that the contents of this report are true and accurate to the best of my knowledge and belief.

E. HAROLD MUNN, JR. & ASSOCIATES, INC.

February 17, 1992

By


E. Harold Munn, Jr. President

100 Airport Drive, Box 220
Coldwater, Michigan 49036

(517) 278-7339

DISCUSSION

This firm was retained to prepare the required engineering report in support of an application for a new FM Broadcast Station, serving the area of Westerville, Ohio. FM Channel 280, 103.9 MHz, is listed in the Table of Allotments for use at Westerville, as a Class A channel. This application proposes the use of that channel, at the former transmitter site of WBBY-FM.

The proposed service contours have been calculated in accordance with the Rules, and the data obtained has been tabulated and plotted in this report. The plotted contours are found as Exhibit E-1 of this report. This exhibit shows the 3.16 mV/m contour which serves the community of license, and the overall service which is provided by the 1.0 mV/m contour of the facility.

The remainder of the information in this report is responsive to the Rules of the Commission, and provides the data for F.C.C. Form 301, Section V-B.

The antenna height above average terrain has been calculated using the NGDC 30" topographic database.

This application meets the spacing requirements of the Rules, Section 73.207(b)(1) Table A concerning United States stations and allotments with one exception. Processing under Section 73.215 of the Rules is requested, and the allocation details are included as Exhibit E-7 of this report. Protection to the short-spaced station will be

ENVIRONMENTAL ASSESSMENT

The FM Broadcast facility proposed in the referenced application will not result in human exposure to radiofrequency radiation in excess of the applicable safety standards specified in Section 1.1307(b) of the Commission's rules.

RADIATION PROTECTION: This proposal has been evaluated for compliance with FCC guidelines concerning human exposure to radiofrequency radiation. The standards employed are detailed in OST Bulletin No. 65, October, 1985.

Table 1 of Appendix B was employed for this study concerning FM broadcast radiation protection.

For the effective radiated power and type of antenna proposed, the minimum antenna radiation center above ground is specified as 18.3 meters.

This application proposes an antenna height above ground of at least 110 meters. Therefore, full compliance with the guidelines is attained by the instant application.

In addition to the protection afforded by the proposed antenna height above ground, the facility will be properly marked with signs. and entry to the facility will be restricted by means

EXHIBIT "A"

The transmitting facility is so located that there is some resident population within the predicted "blanketing" contour, as defined in 47 C.F.R. 73.318. The applicant agrees that full compliance with the procedures and requirements of 73.318(b)(d) will be attained.

The applicant will take such engineering steps as may be required to satisfy complaints of "blanketing" including, but not limited to, the installation of filters, traps, or other devices to satisfy said complaints within the specified time period.

This applicant accepts full responsibility for the elimination of any objectionable interference.

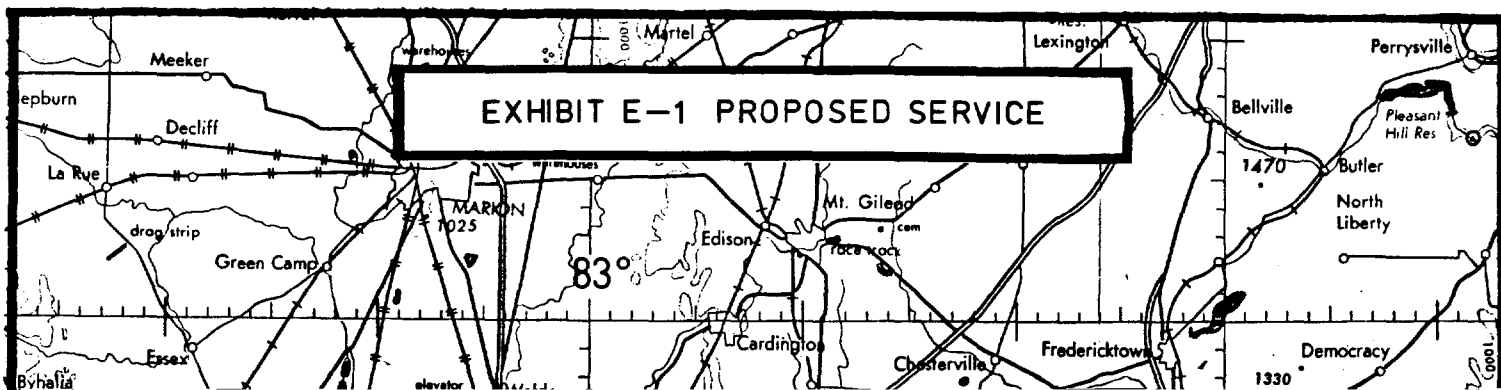


EXHIBIT E-2

ANALYSIS OF TOPOGRAPHIC DATA EMPLOYED

The topographic data employed in this application is based on the National Geophysical Center thirty second point topography data base (TPG-0050).

The averages calculated include 130 points between 3 and 16 km.

The transmitter site elevation was determined by means of 7.5' series topographic mapping. The site coordinates were also developed from the 7.5' series map.

A portion of that map is included in this report as Exhibit E-5.

A detailed topographic analysis using 7.5' topographic maps will be supplied to the Commission if requested.

E. HAROLD MUNN, JR.
& ASSOCIATES, INC.
Broadcast Engineering Consultants
Coldwater, Michigan

EXHIBIT E-3

VERTICAL PLAN

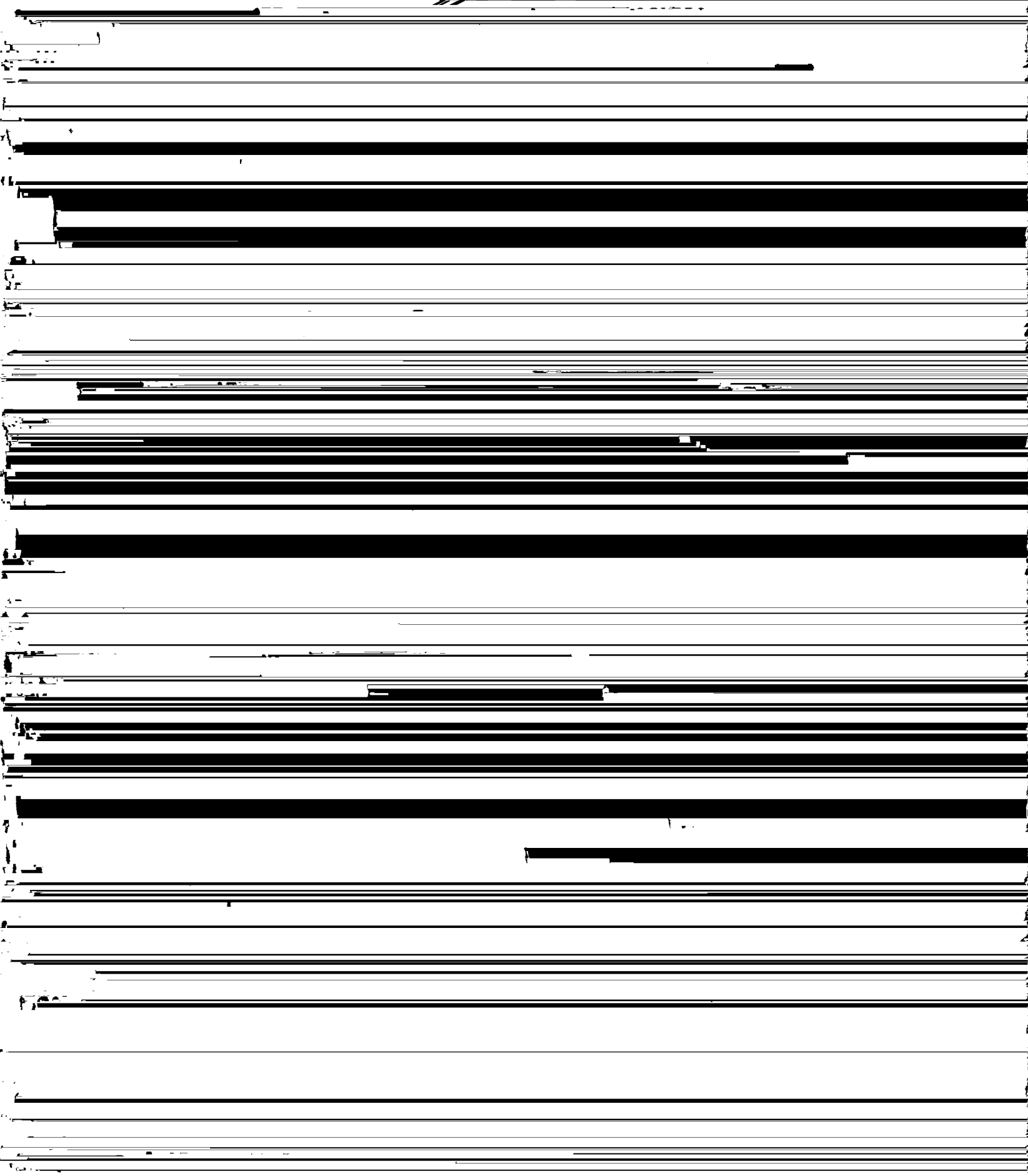


EXHIBIT E-4PROPOSED FM OPERATING SPECIFICATIONS

Applicant: ASF Broadcasting Corp.

Frequency: 103.9 MHz Channel: 280(A) Max.
ERP: DA 5 kW HAAT: 109 (meters)

Transmitter Location: 1.5 km SE of Sunbury on St. Rd. 37, 14 km N-NE of
Westerville, Ohio (Westerville in Franklin Co.)
County: Delaware

State: Ohio

Site Coordinates: NL 40°14'04"; WL 82°50'20" Site Elevation: 311 meters

Proposed Operation:

Effective Radiated Power: 5 (kW)H 5 kW(V) (maximum DA ERP)

Height of Antenna Radiation Center Above:

	<u>Average Terrain</u>	<u>Mean Sea Level</u>	<u>Gnd.</u>
H	109 meters	421 m	110 m
V	109 meters	421 m	110 m

Overall Height of Structure Above Ground: 124 meters

Overall Height of Structure Above Mean Sea Level: 435 meters

EXHIBIT E-4

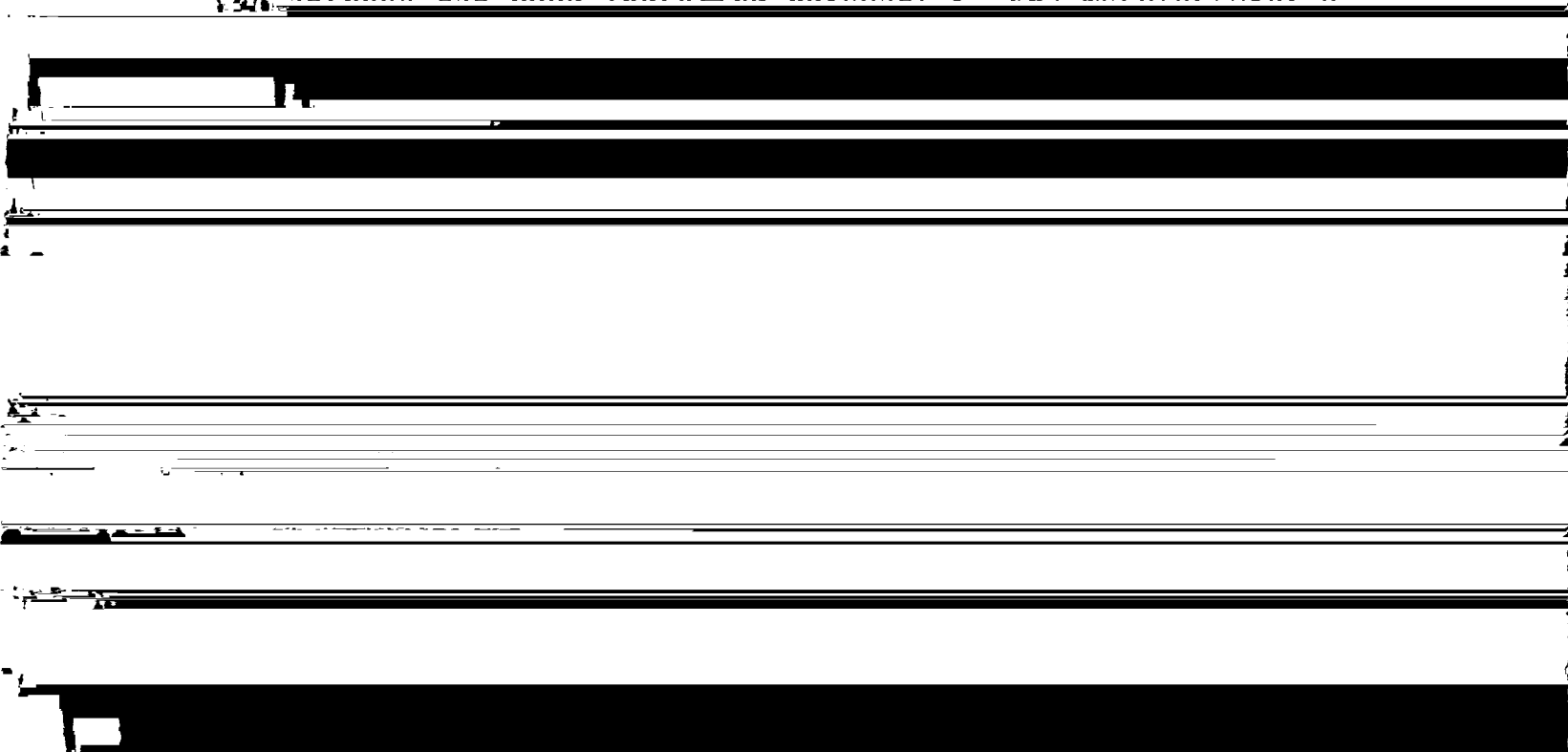
COMPLIANCE WITH 47 C.F.R. Sec. 73.316(c)(5)(6)(7)(8)

The antenna proposed in this application will be mounted in accordance with specific instructions provided by the antenna manufacturer. The antenna will be tested by the manufacturer using the type of mounting which will be employed in the field.

No other antennae of any type are or will be mounted on the same tower level as the directional antenna.

No antenna of any type is or will be mounted within any horizontal or vertical distance specified by the antenna manufacturer as being necessary for proper directional operation.

Upon completion of antenna construction, a statement from a licensed surveyor will be submitted with the application for license. This statement will certify that the antenna has been installed pursuant to the manufacturer's



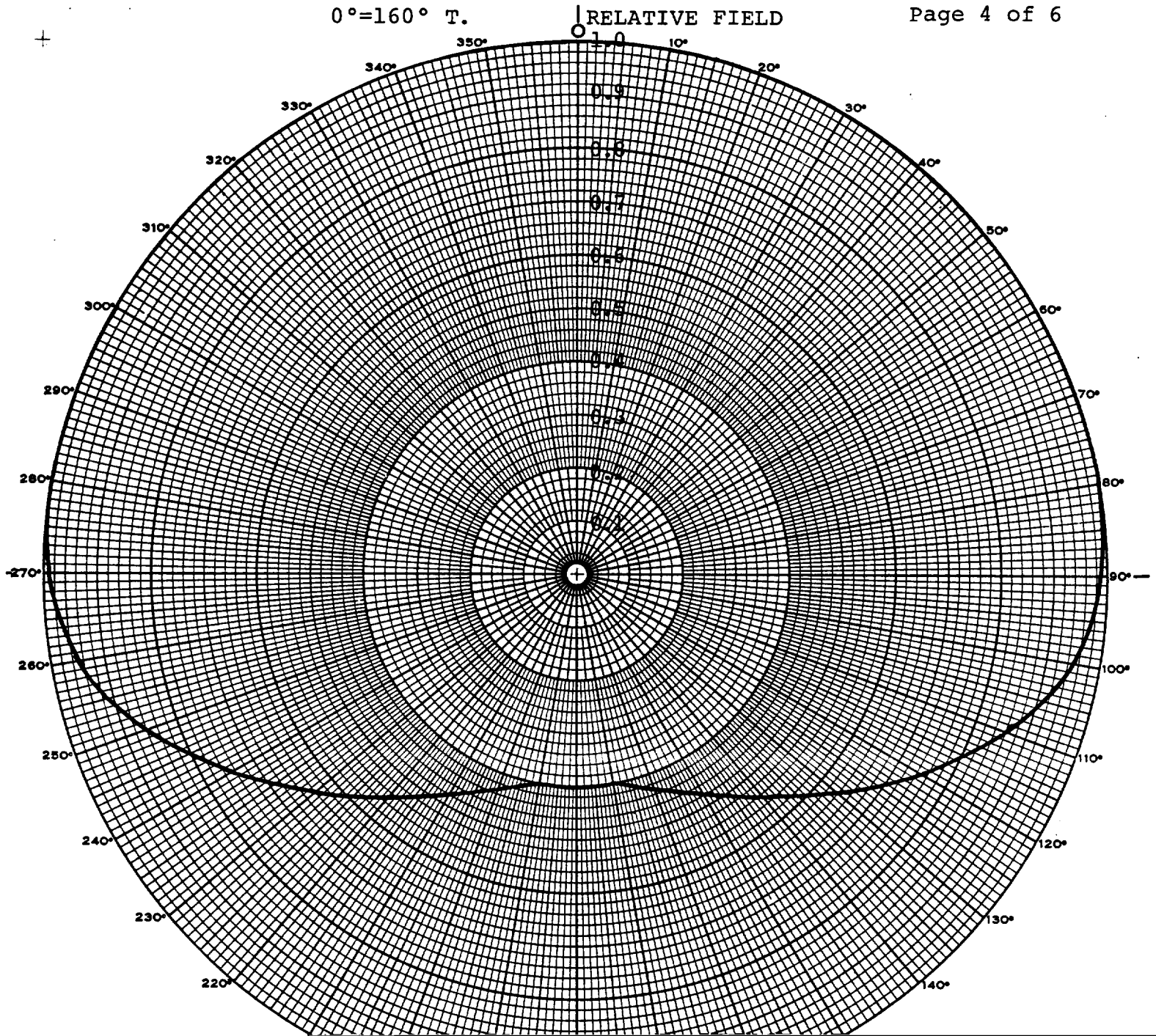
DIRECTIONAL ANTENNA RELATIVE FIELDPATTERN AZIMUTH: 0° = 160 °T.

<u>AZIMUTH</u>	<u>FIELD</u>	<u>AZIMUTH</u>	<u>FIELD</u>
0°	1.000	180°	0.400
10°	1.000	190°	0.400
20°	1.000	200°	0.435
30°	1.000	210°	0.480
40°	1.000	220°	0.550
45°	1.000	225°	0.595
50°	1.000	230°	0.640
60°	1.000	240°	0.750
70°	1.000	250°	0.860
80°	1.000	260°	0.950
90°	0.990	270°	0.990
100°	0.950	280°	1.000
110°	0.860	290°	1.000
120°	0.750	300°	1.000
130°	0.640	310°	1.000
135°	0.595	315°	1.000
140°	0.550	320°	1.000
150°	0.480	330°	1.000
160°	0.435	340°	1.000
170°	0.400	350°	1.000

0°=160° T.

RELATIVE FIELD

Page 4 of 6



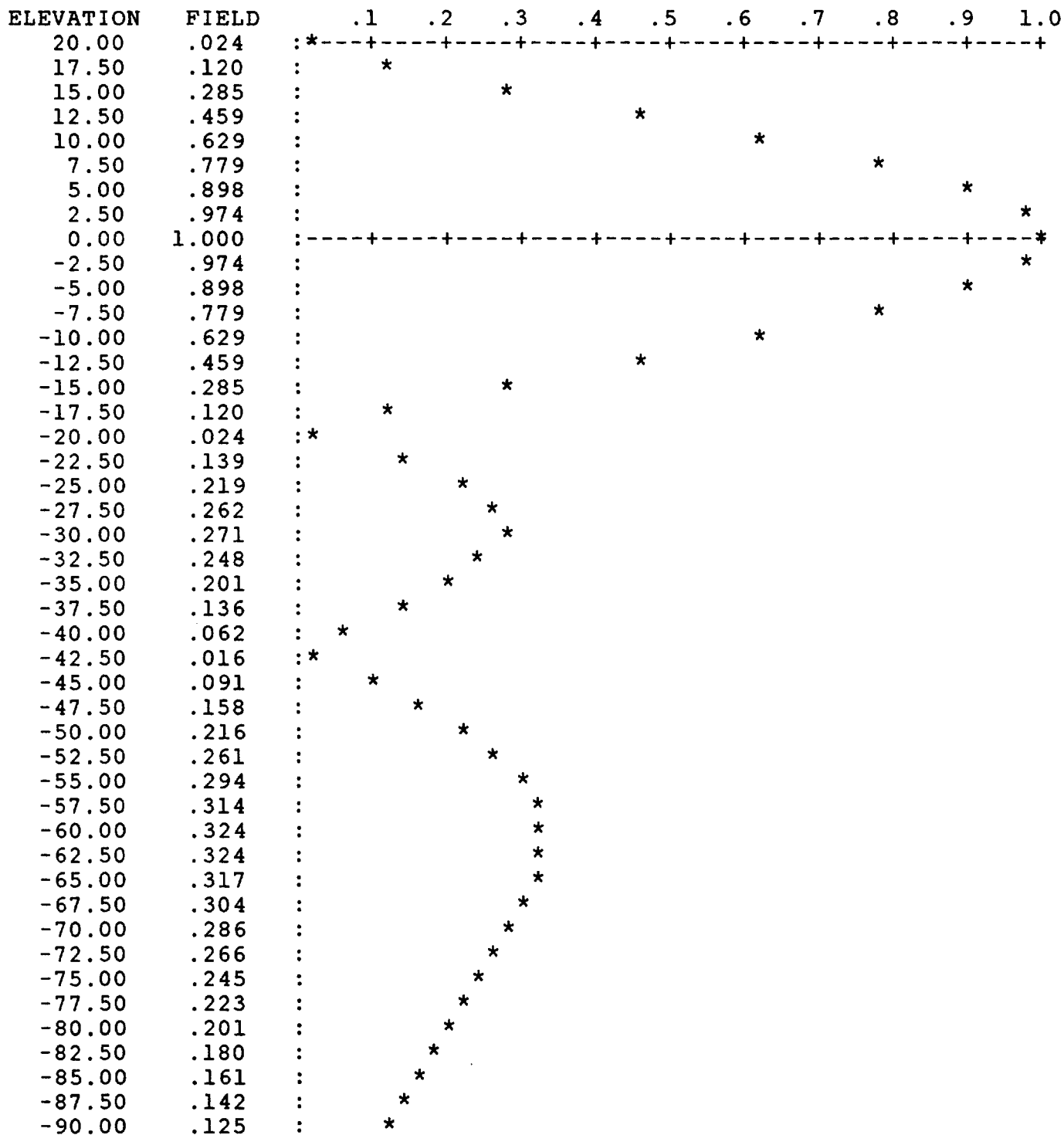
RF SPECIALTIES
ELEVATION PATTERN
JSCP-3(DA) - 3

DATE: FEBRUARY 17, 1992
RMS GAIN= 3

```
PROGRAM NO.  FMP
BEAM TILT=   0%
NULL FILL=   0%
```

PLOT PREPARED FOR: ASF BROADCASTING

FREQ: 103.9 mHz



Predicted Signal Contours: Major Lobe Orientation 160° T.

40 14 04 - WESTERVILLE OHIO

82 50 20 - DIRECTIONAL PATTERN CONTOURS

ERP = 5 kW, 6.99 dBk

FM - 2-6 Tables

Radial	HAAT	kW	dBk	Field	70 dBu.5	60 dBu.5
0 Degr.	96.0M	0.946	-0.241	0.435	10.0	17.9
10 Degr.	90.5M	1.152	0.615	0.480	10.2	18.3
20 Degr.	84.6M	1.513	1.797	0.550	10.5	18.9
30 Degr.	77.4M	2.048	3.113	0.640	10.9	19.5
40 Degr.	70.3M	2.813	4.491	0.750	11.2	20.1
50 Degr.	69.3M	3.698	5.680	0.860	11.9	21.3
60 Degr.	68.5M	4.512	6.544	0.950	12.4	22.2
70 Degr.	69.3M	4.901	6.902	0.990	12.7	22.8
80 Degr.	71.8M	5.000	6.990	1.000	13.0	23.3
90 Degr.	76.4M	5.000	6.990	1.000	13.4	23.9
100 Degr.	77.6M	5.000	6.990	1.000	13.5	24.1
110 Degr.	80.9M	5.000	6.990	1.000	13.7	24.6
120 Degr.	87.1M	5.000	6.990	1.000	14.2	25.4
130 Degr.	90.1M	5.000	6.990	1.000	14.5	25.9
140 Degr.	90.5M	5.000	6.990	1.000	14.5	25.9
150 Degr.	92.8M	5.000	6.990	1.000	14.7	26.2
160 Degr.	97.5M	5.000	6.990	1.000	15.1	26.8
170 Degr.	108.3M	5.000	6.990	1.000	16.1	28.2
180 Degr.	116.5M	5.000	6.990	1.000	16.8	29.1
190 Degr.	123.1M	5.000	6.990	1.000	17.3	29.8
200 Degr.	143.0M	5.000	6.990	1.000	18.7	31.8
210 Degr.	147.5M	5.000	6.990	1.000	19.0	32.3
220 Degr.	145.2M	5.000	6.990	1.000	18.8	32.1
230 Degr.	143.6M	5.000	6.990	1.000	18.7	31.9
240 Degr.	140.0M	5.000	6.990	1.000	18.5	31.5
250 Degr.	139.6M	4.901	6.902	0.990	18.3	31.3
260 Degr.	140.8M	4.512	6.544	0.950	18.0	30.8
270 Degr.	143.1M	3.698	5.680	0.860	17.2	29.6
280 Degr.	143.2M	2.813	4.491	0.750	16.0	27.9
290 Degr.	142.2M	2.048	3.113	0.640	14.6	25.9
300 Degr.	139.1M	1.513	1.797	0.550	13.4	24.0
310 Degr.	137.7M	1.152	0.615	0.480	12.4	22.4
320 Degr.	135.6M	0.946	-0.241	0.435	11.8	21.3
330 Degr.	129.5M	0.800	-0.969	0.400	11.0	20.0
340 Degr.	118.5M	0.800	-0.969	0.400	10.6	19.2
350 Degr.	112.2M	0.800	-0.969	0.400	10.3	18.7

Ave. HAAT= 109.4M, Ant. COR= 420.6M AMSL

Other Azimuths:

45 Degr.	68.0M	3.200	5.051	0.800	11.4	20.4
135 Degr.	90.7M	5.000	6.990	1.000	14.5	25.9
212 Degr.	148.1M	5.000	6.990	1.000	19.0	32.4
225 Degr.	144.7M	5.000	6.990	1.000	18.8	32.0
315 Degr.	136.7M	1.044	0.188	0.457	12.1	21.9

ARENGO 1:62

UNITED STATES
DEPARTMENT OF THE INTERIOR

EXHIBIT E-5



EXHIBIT E-6

TABULATION OF POPULATION AND AREA

<u>CONTOUR</u>	<u>POPULATION</u>	<u>AREA</u>
1.0 mV/m	604,037	2,048 km ²

The population within the 1.0 mV/m contour was determined by